Amendments to the Specification:

Please replace paragraph [0022] with the following amended paragraph:

[0022] FIG. 6A is a cross-sectional view of an integrated fan pump in accordance with an alternate embodiment of the present invention;

Please add the following new paragraph after paragraph [0022]:

[0022.1] FIG. 6B is a magnified view of the gearing mechanism of FIG. 6A.

Please replace paragraph [0024] with the following amended paragraph:

[0024] FIG. 8A is a cross-sectional view of an integrated fan pump in accordance with yet another embodiment of the present invention;

Please add the following new paragraph after paragraph [0024]:

[0024.1] FIG. 8B is a magnified view of the gearing mechanism of FIG. 8A.

Please replace paragraph [0043] with the following amended paragraph:

[0043] In accordance with another embodiment of the present invention, shown in FIG. 6A, the ring-type magnet may be replaced by a disc magnet 614 which is fixed to the fan head, and the magnetic coil is replaced by a flat magnetic coil 606.

Please replace paragraph [0046] with the following amended paragraph:

[0046] FIG. 8A shows an alternate embodiment of the module shown in FIG. 7. In this embodiment, magnetic coil 606 is situated between magnet 704 (which is coupled to pump head 602) and magnet 614 (which is coupled to fan head 614). Axle 608 (including segments 608a and 608b) is fixed to housing 302, thus, fan head 612 and pump 602 rotate freely around bearing 702. Magnets 704 and 614 are preferably disc-shaped, but may have any other convenient shape.

Please replace paragraph [0048] with the following amended paragraph:

[0048] With respect to all the embodiments shown thus far, the axle has been illustrated as a single contiguous longitudinal member. In an alternate embodiment, however, the axle includes a first axle segment 608a coupled to the fan head and a second axle segment 608b coupled to the pump head, wherein the first and second axle segments are mechanically coupled via a gearing mechanism 609, e.g., one or more gears (as shown on

FIGs. 6B and 8B), linkages, or other such mechanical couplings. The use of separate axles is advantageous in that the speed and power of the pump may be tailored for the strength of the motor.